

**Amendments to the Claims:**

*This listing of claims will replace all prior versions, and listings, of claims in the application.*

**Listing of Claims:**

1. (currently amended) A computer readable medium containing a computer program executable by a computer for managing a family of component systems within a medical diagnostic system and having a shared family architecture based upon commonly used generic building blocks of software, wherein said family of component systems comprising include at least one system selected from the group consisting of application, technical and infrastructure components of an X-ray apparatus, and wherein said computer program comprising instructions for implementing:

a service component framework that comprises a skeleton of software architecture of generic and specific requirements, wherein said generic requirements focuses on generic meaning of service interfaces and said specific requirements provides for service specific issues and that supports participating software plug-in components;

individual participating software plug-in components provides that each provide one or more services/functions services, wherein the one or more services correspond to one or more functionalities specific to a corresponding software plug-in component, further wherein the one or more functionalities include aspects of use and control of the application, technical and infrastructure components of the X-ray apparatus that are modeled as the one or more services; and

the component framework defines roles/actions roles defined by the service component framework for providing one or more common interfaces for communication of services of several software plug-in components that manipulate hardware associated with the component framework, wherein the service component framework is further configured for actively connecting common interfaces of software plug-in components and providing, via respective roles, the functionality of the interfaces to

clients, the clients being configured for using the functionality provided by the service component framework and software plug-in components as a whole, without the service component framework revealing specific configurations of the software plug-in components to the client.

2. (currently amended) The computer readable medium as claimed in Claim 1, wherein the component framework further includes an inventory function for assessing available services in the participating software plug-in components.

3. (previously presented) The computer readable medium as claimed in Claim 2, wherein the inventory function includes initializing the one or more services.

4. (previously presented) The computer readable medium as claimed in Claim 2, wherein the inventory function assesses available services at initialization of the at least one system or during run-time of the at least one system.

5. (previously presented) The computer readable medium as claimed in Claim 2, wherein the inventory function maintains a list of the available services.

6. (cancelled)

7. (cancelled)